UNIT PRICES

Approved For Release 2002/02/19: CIA-RDP86-00244R000200510003-6

Top U.S. firms compete—r Teton Dam

Seven competitors, including some of the largest U.S. construction firms, bid on the Bureau of Reclamation's Lower Teton Dam project in eastern Idaho.

A joint venture of Morrison-Knudsen Co., Inc. (M-K), Boise, Idaho, and Peter Kiewit Sons' Co., Omaha, is the apparent low bidder at \$39.5 million, slipping 13% under the second low joint venture of Dravo Corp., Bellevue, Wash., S.J. Groves & Sons, Minneapolis, and Granite Construction Co., Watsonville, Calif.

Work includes an earth and rockfill dam, power and pumping plant. The zoned embankment dam will be 3,050 ft long at the crest and 305 ft above the bed of Teton River. The power and pumping structure will accommodate three 10-mw generators and horizontal, centrifugal-type pumping units.

In addition, the project will include river outlet works, 42-in.-dia. pump discharge line, 72-in.-dia. feeder pipeline and spillway.

M-K-Kiewit gained substantially with its excavation bids. For the first 4.6 million cu yd of excavation in borrow areas A and B, its \$0.43-per-cu-yd bid plunged 49% under the second low's \$0.84-per-cu-yd price. And for ex-

Morrison-Knudsen Co., Inc., Boise, ID & Peter Klewit Sons, Co., Omaha, NB, a joint

venture ... 20 Crave Corp., Bellevue, WA, S. J. Groves & Sons, Minneapolis, MN & Granite Constr. Co., Watsonville, CA, a joint venture ... 7 Perini Corp., Framingham, MA & Brown & Root, Inc., Houston, TX, a joint venture ... EE: Bureau of Reclamation, Denver, CO

Unit

300,000

310,000

160,000

45,000 1,700 170

cy 120,000 cy 2,700,000

cy 4,600,000 cy 2,400,000

31,400

10,900

630,000

1C

Bids: 10/29/71 Items:

Mobilize & prep.
River divers & care, remove water from findn.
Exc, dam embankmt findn, above El 5040, first 300,000 cy.
over 300,000 cy.
bel El 5040, first 420,000 cy.
Exc, open-cut, struct, first 310,000 cy.
over 320,000 cy.
cover 320,000 cy.
over 38,000 cy.
over 38,000 cy.
over 58,000 cy.
over 58,000 cy.

& stocknile

& stockpile.

Exc, in area A & B, transport to dam embankmt, first 4,600,000 cy...

Exc, outlet wrk tunnel, intake struct shaft, gate chamb & shaft.

aux tunnel, gate cham, adit & shaft.

Tunnel & shaft supprts,

steel rock bolt Conc, outlet wrk tunnel w/o steel liner

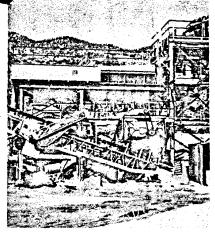
Conc, aux tunnel lining...

steel liner

cess excavation, 2.4-million cu yd, the winner halved the second low's bid.

Minimum wage rates include: laborer, \$4.33 to \$4.93; drill doctor, \$4.93; brakeman, \$5.24; tractor and shovel loader operator, \$6.18.

| 39.5 million, slip | | | 4 000 000 | 0.40 | 0.45 | |
|--|---|----------|----------------------|---|----------------------|---|
| second low join | | . cy | 4,800,000 41,000 | 0.40 1.65 | 0.45 7.00 | |
| Corp., Bellevue | Sand, grav & cobble fill, dam embkmt, zone 2 | | 2,000,000 | 0.85 | 1.00 | |
| s & Sons, Mir. | Silt, sand, grav & cobble, | | 2 ,000,000 | 7.55 | | De TRIPA |
| Construction Co | dam embkmt, zone 4, | | | 0.43 | 0.12 | |
| | Proc & place | cy | 330,000 | 0.65 | 0.90 | |
| earth and rockfi | 1 zone 5 | сy | 790,000 | 0.09 | 0.80 | |
| mping plant. Th | | ton | 130,000 66,000 | 2.85 4,30 | 6.70 1.50 | |
| dam will be 3,05 | | сy | 54,000 | 1,05 | 1.00 | Coarse aggregate and concrete Water Resources and Highway |
| d 305 ft above th | | ŀf | 39,000 23,000 | 4.30 4.50 | 4.20 4.20 | Water Resources and Highway Kirst Construction Company's Installation. The unique plant |
| d 505 it above th | C 30'-60' deep _1 88'-110' deep | if If | 20,000 | 4.70 | 4 20 | Installation. The unique plant Scalping Tank with Autospec classifiers, recirculating pump ing bin; plus three Eagle Was |
| . The power an | 150'_210' doon | lf lf | 13,000 5,800 | 4.90 5.00 | 4.25 4.75 4.75 | ing bin; plus three Eagle Was |
| vill accommodat | 210'-260' deep | . if | 5,800 900 | 5,20 7,00 | 475 475 | |
| ors and horizonta | Pressure grout, cement | ppi | 55,000 | 00,8 | 5.20 | Pienty o |
| ping units. | sand,. fndn | cy | 1,700 260,000 | 1 6.00 3.40 | 30.00 2.30 | n reserve |
| roject will includ | e Perf sew pipe w/drain, 6 | 讲 | 6,000 5,400 | 7.50 8.50 | 8.00 11.00 | Banco ma la |
| -india. pump dis | | | 140 150 | 11.00 12.00 | 15.00 20.00 | but no d |
| ia. feeder pipelin | e Cement for conc | bbl | 113,000 | 4.50 | 4.50 | |
| • | Reinf bars, #5 & less #6 & 7 | ib | 380,000 4,300,000 | 0.23 0.23 | 0.23 0.23 0.23 | with Eagle S |
| ned substantiall | y #8 thru 11 weld | ıЬ | 5,100,000 200 | 0.23 15.00 | 0.23 50.00 | Sand Classif |
| bids. For the firs | t Conc. bf | Cy | 2,270 | 40,00 | 64.00 | |
| excavation in bo | | cy Cy | 1,870 420 | 35.00 75.00 | 84.00 64.00 | Progressive produc |
| its \$0.43-per-cu-y | imbalin naurat abarin El | Cy | 600 | 140.00 | 104.00 | depend upon expe |
| under the secon | -L-6 C L | | 390 | 1 65.00 | 114.00 | ruggedly constructe |
| price. And for ex | _ channel lining floor | CY | 770 | 40.00 | 54.00 134.00 | ary Sand Sections |
| | stilling basin floor | СY | 970 1,290 | 125.00 50.00 | 54.00 | cification material |
| | walls | cy | 2,530 630 | 90.00 120.00 | 104.00 104.00 | 1 |
| ., Boise, ID & | canal outlet wrk contr | | 550 | 90.00 | 74.00 | regardless of the b |
| naha, NB, a Joint \$39,476,14 | struc, | | 000 | 70.00 | , 4.00 | certain sizes) that i |
| S. J. Groves & Granite Constr. | intake struc & gate | | 770 | 50,00 | 114.00 | run material. Only |
| ıt venture, . 45,424,39 | | cy | 1,170 775 | 40.00 80.00 | 54.00 74.00 | low-maintenance r |
| VIA & Brown & joint venture 56,092,43 | 5 river pipe & gate anchor | · cy | 2,200 | 40.00 | 74.00 | capacity with precis |
| er, CO 35,999,27 | plant | | | | | That means added |
| Quan- Unit Price tity 1C 2 | substruct intermed struct | cy cy | 4,800 6,000 | 65,00 1 40.00 | 74.00 114.00 | • |
| • | spillway inlet struct, | - | 2,960 | 45.00 | 54.00 | life, producing ma |
| Job 3,000,000 3,000,00 | entrfortd walls & piers | cy cy | | 120.00 | 114.00 | cost per ton. |
| job 905,000 1,923,00 | off & 60" pipe encasms | Cy | 9,560 | 60.00 | 64.00 | Only Eagle Water |
| 3.80 5.5 | chute walls | Сy | 1,280 | 200,00 | 204.00 | offer patented AU |
| 50,000 2.90 3.0 | O floor cutoff & dentates | су | 4,090 1,735 | 40.00 90.00 | 54.00 94.00 | DIALSPLIT® re-ble |
| 20,000 0.85 1.7 | 5 Precast conc panels, power | • | | | | l . |
| 30,000 0.69 1.0 | & pump plant superstruct control & white struct | l Is | doj doj | 120,000 33,000 | 1 65,000 60,000 | plus rising curr |
| 10,000 3,25 2.5 60,000 2,40 1.5 | Steel, power & pump plant | ١ | 340,000 | 0,58 | 0.57 | product metering t |
| | control & whse struct | lb | 30,000 | 0.68 0.70 | 0.70 5.00 | of other money and |
| 85,000 1.50 0.5 45,000 1.50 0.3 | 5 control & whse struct. | sf | 8,800 4,400 | 1.00 | 5.00 | features. Only Eagl |
| 1,700 50.00 50.0 170 67.00 75.0 | O 6 outlet gates 4'x4' w/ap- | ls | job | 315,000 | | gle screw and 4 do |
| | 2 Jet flow gates 20" | ls Is | | 42,000 181,000 | 35,000 245,000 | material Washer - C |
| 20,000 1.70 1.3 | Q 3 pensick butterfly valves | : Is | ĵob | 452,000 | 331,000 | drators with dozens |
| 00,000 1.10 1.4 | w/motor oper hoists | ls | job | 64,000 | 192,500 | neered to meet you |
| 00,000 0.43 0.5 | Pipe & fittings, power & pump plant, cast iron soll | lb | 22,500 | 3,80 | 1.60 | |
| 00,000 0.30 0.6 | D cast iron pressure | 16 | 16,000 24 | 3.80 6.00 | 1.10 3.00 | Write today fo |
| | steet 2" & less w/valves 21/2" & larger | (b | 2,500 | 5,00 | 1.20 | Catalog Sections I |
| 31,400 37.00 30.0 | Conduit, electr rigid met, | ib | 400 | 23,00 | 22.00 | & C. EAGLE IRON |
| 10,900 58.00 45.0 | o embed or expose, 34" | lf If | 12,500 3,750 | 4.40 4.80 | 1.85 2.20 | WORKS, Des Moines |
| 30,000 0.35 0.3 | 5 11½ | if If | 3,650 3,400 | 5,30 6,00 | 3.00 3.50 | Iowa 50304. Factory |
| 20,000 3.25 3.2 | 21/2" |)f | 300 | 7,50 | 5.00 | · Trained Distributor |
| 3,850 100.00 104.0 6,680 38.00 59.0 | 0 4" | 11 | 500 200 | 10.00 | 7.00 10.00 | F |
| 5,410 115.00 129.0 Approved Fo | r Release 2002/0 | 2/t1 | 9 · Cl. | $\Delta - \stackrel{?}{R} \stackrel{?}{\cap} \stackrel{?}{P}$ | 86-00024 | Everywhere. 44R000200510003-6 |
| , apployed 1 0 | | / I | J . OI | | | |



Plenty of guts-

with Eagle Stationary Sand Classifiers

Progressive producers everywhere depend upon expertly engineered, ruggedly constructed Eagle Stationary Sand Sections to provide specification material shift after shift, regardless of the bellies (excess of certain sizes) that may occur in pit run material. Only Eagle combines low-maintenance reliability and capacity with precision re-blending. That means added years of service life, producing material at lowest cost per ton.

Only Eagle Water Scalping Tanks offer patented AUTOSPEC® and DIALSPLIT® re-blending controls; plus rising current classifiers, product metering bins and a host of other money and material-saving features. Only Eagle offers 10 single screw and 4 double screw fine material Washer - Classifier - Dehydrators with dozens of options engineered to meet your requirements.

Write today for Catalog Sections B & C. EAGLE IRON WORKS, Des Moines, Iowa 50304. Factory-Trained Distributors Everywhere



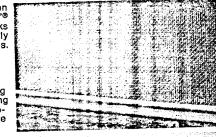
CIRCLE 87 ON READER SERVICE CARD

- A M C NO Seved For Pelease 2002/02/19 : CIA-RDP86-00244 R0002005 1000 8-6 3,500 trusted name for highway safety products

Chain link pedestrian overpass protects both people and automobiles.

Permascreen "Suburbanaire"® fence blocks out unsightly landscapes.

> Bridge railing and screening provides protection above and below.



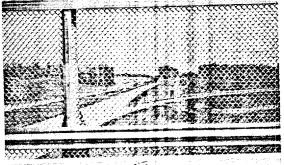
than Anchor® Fence. Anchor offers a complete selection of highway safety products for roadside, median, bridge, or overpass. Chain link fabric shown is available in aluminum alloy, galvanized steel, or Anchor's exclusive Permafused® Chain Link with a vinyl coating that's as tough as it is good looking.

Along the road, nothing

does more jobs better

With three manufacturing plants and 48 regional offices, Anchor is prepared to give you fast, on-time delivery and erection service. And every Anchor Fence is installed quickly and expertly by

---trained Anchor crews, noroved

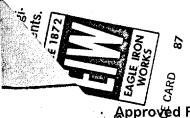




Above: rightof-way fencing. At right: Chain link fencing on median strip is unsurpassed as a glare guard.



Anchor Guard Rail is strong and durable.



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Division of Anchor Post Products, Inc. Plants in Baltimore, Md.; Houston, Texas; Los Angeles, Calif.

Unit Price 2 P11: 10/29/71 100 5.00 400 26,000 3.50 Pipe trenches, exc..... 2.95 4.50 23,000 2 90 182 635 74 74 65 390 55.00 54.00 54.00 275" press.. 300" press.. 48", 125" press.. 60", 25" press.. 72", 125" press.. 75" press.. 100" press.. 100" press.. 125" press.. 150" press.. 54.00 74.00 69.00 250 150 135 55 118.00 150" press... cl D, 42", 325" press... 48", 100" press... 72", 250" press...

Completion time: Part 1 (excavation and stockpiling Borrow Area C and C extension) 425 calendar days Part 11 (power and pumping plant structures) 840 calendar days Part 111 (remainder of work) 1,800 calendar days

days Liquidated damages: Parts I & II—\$750 per day Part III—\$1,500 per day

ENR Constr Cost Index (1913=100) U. S. 20-cities avg.—1644

Concrete beats out steel for subway tunnel under river

Over 12,000 ft of twin-tube subway tunnel to be driven under the Potomac River, between Washington, D.C., and Virginia will cost about \$2,100 per lin ft, including shafts and pumping station. The winning joint venture of J. F. Shea Co., Inc., Walnut, Calif.; Gordon H. Ball, Alexandria, Va.; and S&M Constructors, Inc., Philadelphia, bid \$23.4-million, 13.1% under the engineer's estimate for the winning alternate, cast-in-place concrete tunnel for sections 1 and 2. And it was 10.7% under the next lowest bid price, for steel segmented tunnel lining, submitted by a joint venture of S. J. Groves & Sons Co., Minneapolis, and Granite Construction Co., Watsonville, Calif.

Rock tunnel (section 3) accounts for 8,303 lin ft in this award of section C-4, Huntington Route, by the Washington Metropolitan Area Transit Authority. The rock will be mined, the tunnel ribbed with steel and lined with pumped concrete.

The other two tunnel sections will be conventionally cast-in-place concrete.

The two tunnel tubes have a 16-ft 8in. ID and 19-ft 4-in. OD to pay line.

The winner priced concrete lining for section 1 at less than one-third the price bid by its closest competitor, which chose the steel segmented lining alter-00020031000310003rmner's price was 39% higher for lining section 2.

(Continued on p. 90)